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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/715,130	11/20/2000	Paul S. Kay	8838	6369

26890 7590 05/12/2005

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EXAMINER

STULBERGER, CAS P

ART UNIT PAPER NUMBER

2132

DATE MAILED: 05/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/715,130	<b>Applicant(s)</b> KAY, PAUL S.	
	<b>Examiner</b> Cas Stulberger	<b>Art Unit</b> 2132	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 02 February 2005.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1,3-6,9 and 11-14 is/are pending in the application.
- 4a) Of the above claim(s) 2,7,8 and 10 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,3-6,9 and 11-14 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

*A*

### **DETAILED ACTION**

1. This action is responsive to communications: application, filed 11/20/2000; amendment filed 02/02/2005.
2. Claims 1, 3-6, 9, and 11-14 are pending in the case. Claims 1 and 9 are independent claims.

### ***Response to Amendment***

3. Applicant argues that He does not disclose multiple types of security agents: a “set of interdependent security agents including a configuration agent and at least one of a distribution agent, a secure copy agent, and a patrol agent.” He discloses a security agent which could provide capabilities such as retrieve, transfer, or exchange credential among different hierarchy systems, or introduce one agent to another, or delegate one agent to act on another’s behalf, etc. (He: page 2, right column, section 2.1, first paragraph). This meets the limitation of a configuration agent. He also disclose He discloses a communicator (He: page 2, right column, last 2 lines; page 3 left column, first 2 paragraphs.) This meets the limitation of a distribution agent. The limitation recites a “set of interdependent agents including a configuration agent and at least one of a distribution agent, a secure copy agent, and a patrol agent.” He discloses a configuration agent and a distribution agent as discussed above. This meets the limitation since only a configuration and at least one of a distribution agent, secure copy agent, and a patrol agent is claimed not a configuration, distribution, secure copy, and patrol agent.

4. In view of the rejections and response to arguments above, the prior art rejections are maintained. The grounds of rejection as set forth in the previous office action is reproduced below.

***Claim Rejections - 35 USC § 102***

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1, and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Non Patent Literature "Personal Security Agent: KQML-Based PKE by Qi He, Katia P. Sycara, and Timothy W. Finin.

7. In regards to claims 1, and 9, He, Sycara, and Finin disclose software agents, which will be delegated by humans to automatically perform task, including digitally conducting transactions across the Internet (He: page 1, right column, second full paragraph). This meets the limitations of “deploying a set of interdependent security agents within an agent community; and managing the agent community security using the security agents.” He discloses a security agent which could provide capabilities such as retrieve, transfer, or exchange credential among different hierarchy systems, or introduce one agent to another, or delegate one agent to act on another’s behalf, etc. (He: page 2, right column, section 2.1, first paragraph). This meets the limitation of a configuration agent. He discloses a communicator (He: page 2, right column, last 2 lines; page 3 left column, first 2 paragraphs.) This meets the limitation of a distribution agent.

*Claim Rejections - 35 USC § 103*

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 3-6, and 11-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Non Patent Literature "Personal Security Agent: KQML-Based PKE by Qi HE, Katia P. Sycara, and Timothy W. Finin. as applied to claims 1, 2, 7, 8, 9, and 10 above, and further in view of Non Patent Literature "Security mechanisms for the MAP agent system" by Antonio Puliafito and Orzaio Tomarchio

10. In regards to claims 3-5, and 11-13, He does not disclose a patrol agent in investigatory mode isolating an unauthorized agent.

11. Puliafito discloses when an agent reaches a host it is confined to a protection domain where it can operate within fixed limits (Puliafito: page 4, left column, first full paragraph; page 6, right column, 3<sup>rd</sup> -4<sup>th</sup> paragraph).

12. It would have been obvious to one having ordinary skill in the art at the time the invention was made to combine the method of using security agents as disclosed in He with the method of confining the agents to protection domains as disclosed by Puliafito in order to protect the hosts from the agents and the agents from other agents and from the attacks coming from the network (Puliafito: page 4, right column, section 4.1).

13. In regards to claims 6, and 14, He does not disclose migrating one agent to another agent community.
14. Puliafito discloses migrating an agent to another community (Puliafito: page 4, right column, 4<sup>th</sup> bullet).
15. It would have been obvious to one having ordinary skill in the art at the time the invention was made to combine the method of using security agents as disclose in He with the method of migrating agents to other communities as disclosed by Puliafito in order to integrate remote execution and code on demand (Puliafito: page 2, left column, section 3; page 3, right column, first paragraph).

### *Conclusion*

16. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

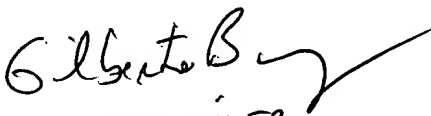
17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cas Stulberger whose telephone number is (571) 272-3810. The examiner can normally be reached on Monday - Friday, 9:00A.M. - 6:00P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on (571) 272-3799. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CS

CS  
May 10, 2005

  
GILBERTO BARRON JR.  
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